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| FORM PTO-1390<br>(REV. 11-2000)  |  | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE              | ATTORNEY'S DOCKET NUMBER<br>43289-205707  |
| <b>TRANSMITTAL LETTER TO THE UNITED STATES<br/>DESIGNATED/ELECTED OFFICE (DO/EO/US)<br/>CONCERNING A FILING UNDER 35 U.S.C. 371</b>  |  |  | U.S. APPLICATION NO. (If known, see 37 CFR 1.5)<br>No. Yet Assigned<br><b>10/501950</b> |
| INTERNATIONAL APPLICATION NO.<br><b>PCT/FI03/00073</b>   | INTERNATIONAL FILING DATE<br><b>January 29, 2003</b> | PRIORITY DATE CLAIMED<br><b>January 29, 2002 and January 8, 2003</b> |   |
| TITLE OF INVENTION<br><b>"METHOD FOR MANUFACTURING CELLULOSE CARBAMATE"</b>  |  |  |   |
| APPLICANT(S) FOR DO/EO/US<br><b>Kyösti VALTA and Eino SIVONEN</b>  |  |  |   |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:  |  |  |   |
| <ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</li> <li>4. <input type="checkbox"/> The US has been elected by the expiration of 19 months from the priority date (Article 31).</li> <li>5. <input checked="" type="checkbox"/> A copy of the International Application published as <b>WO 03/064476 A1</b>.               <ol style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> has been communicated by the International Bureau. (attach form IB 308)</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ol> </li> <li>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).               <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto.</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4)</li> </ol> </li> <li>7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)).               <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> have been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</li> <li>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</li> <li>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</li> </ol> |  |  |   |
| Items 11 to 20 below concern document(s) or information included:  |  |  |   |
| <ol style="list-style-type: none"> <li>11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98 with PTO-1449 and copies of 8 references</li> <li>12. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</li> <li>13. <input checked="" type="checkbox"/> A FIRST preliminary amendment.</li> <li>14. <input type="checkbox"/> A SECOND or SUBSEQUENT preliminary amendment.</li> <li>15. <input type="checkbox"/> A substitute specification.</li> <li>16. <input type="checkbox"/> A change of power of attorney and/or address letter.</li> <li>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825.</li> <li>18. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4).</li> <li>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</li> <li>20. <input checked="" type="checkbox"/> Other items or information: (a) International Search Report; (b) Notice Informing the Applicant of the Communication of the International Application to the Designated Offices; (c) Application Data Sheet; (d) Postcard</li> <li>20a. <input type="checkbox"/> For purposes of examination, please insert the annexes to the IPER, so that the application will comprise the following pages of the English translation:<br/>           Specification: Original pages , Amended pages<br/>           Claims: Original claims Amended claims         </li> </ol>  |  |  |   |

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|---------------------------------------|--|--|--|---------------------------------------|--|
| U.S. APPLICATION NO. <b>10/501950</b> |  | INTERNATIONAL APPLICATION NO. PCT/FI03/00073 |  | ATTORNEY'S DOCKET NUMBER 43289-205707 |  |
|---------------------------------------|--|--|--|---------------------------------------|--|

| <p>21. <input checked="" type="checkbox"/> The following fees are submitted:</p> <p><b>BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5):</b></p> <p>Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO.....\$ 1080.00</p> <p>International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO..... \$920.00</p> <p>International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO..... \$770.00</p> <p>International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4)..... \$730.00</p> <p>International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4) ..... \$100.00</p> <p style="text-align: right;"><b>ENTER APPROPRIATE BASIC FEE AMOUNT =</b></p> <p>Surcharge of \$130.00 for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(e)).</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 20%;">CLAIMS</th> <th style="width: 20%;">NUMBER FILED</th> <th style="width: 20%;">NUMBER EXTRA</th> <th style="width: 20%;">RATE</th> <th style="width: 20%;">\$</th> </tr> <tr> <td>Total claims</td> <td>30 - 20 =</td> <td>10</td> <td>x \$18.00</td> <td>\$180.00</td> </tr> <tr> <td>Independent claims</td> <td>1 - 3 =</td> <td>0</td> <td>x \$86.00</td> <td>\$0.00</td> </tr> <tr> <td colspan="3">MULTIPLE DEPENDENT CLAIMS(S) (if applicable)</td> <td>+ \$290.00</td> <td>\$</td> </tr> <tr> <td colspan="4" style="text-align: right;"><b>TOTAL OF ABOVE CALCULATIONS =</b></td> <td>\$ 1260.00</td> </tr> <tr> <td colspan="4"> <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.         </td> <td style="text-align: right;">+ \$ 1260.00</td> </tr> <tr> <td colspan="4" style="text-align: right;"><b>SUBTOTAL =</b></td> <td>\$ 1260.00</td> </tr> <tr> <td colspan="4">           Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)).         </td> <td style="text-align: right;">\$</td> </tr> <tr> <td colspan="4" style="text-align: right;"><b>TOTAL NATIONAL FEE =</b></td> <td>\$ 1260.00</td> </tr> <tr> <td colspan="4">           Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property         </td> <td style="text-align: right;">+ \$ 40.00</td> </tr> <tr> <td colspan="4" style="text-align: right;"><b>TOTAL FEES ENCLOSED =</b></td> <td>\$ 1300.00</td> </tr> <tr> <td colspan="4"></td> <td style="text-align: right;">Amount to be refunded:</td> </tr> <tr> <td colspan="4"></td> <td style="text-align: right;">\$</td> </tr> <tr> <td colspan="4"></td> <td style="text-align: right;">charged:</td> </tr> <tr> <td colspan="4"></td> <td style="text-align: right;">\$</td> </tr> </table> <p>a. <input type="checkbox"/> A check in the amount of \$<u>00</u> to cover the above fees is enclosed.</p> <p>b. <input checked="" type="checkbox"/> Please charge my Deposit Account No. <u>22-0261</u> in the amount of \$ <u>\$1300.00</u> to cover the above fees.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>22-0261</u>. A duplicate copy of this sheet is enclosed.</p> <p>d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</p> <p><b>NOTE:</b> Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the application to pending status.</p> <p>SEND ALL CORRESPONDENCE TO:</p> <p><b>VENABLE LLP</b><br/>   P.O. Box 34385<br/>   Washington D.C. 20043-9998<br/>   Phone No. 202-344-4000<br/>   Fax No. 202-344-8300</p> <div style="text-align: right; margin-top: 20px;"> <br/>     SIGNATURE<br/> <u>Eric J. Franklin</u><br/>     NAME<br/> <u>37,134</u><br/>     REGISTRATION NUMBER   </div> |              |              |            | CLAIMS                 | NUMBER FILED | NUMBER EXTRA | RATE | \$ | Total claims | 30 - 20 = | 10 | x \$18.00 | \$180.00 | Independent claims | 1 - 3 = | 0 | x \$86.00 | \$0.00 | MULTIPLE DEPENDENT CLAIMS(S) (if applicable) |  |  | + \$290.00 | \$ | <b>TOTAL OF ABOVE CALCULATIONS =</b> |  |  |  | \$ 1260.00 | <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2. |  |  |  | + \$ 1260.00 | <b>SUBTOTAL =</b> |  |  |  | \$ 1260.00 | Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)). |  |  |  | \$ | <b>TOTAL NATIONAL FEE =</b> |  |  |  | \$ 1260.00 | Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property |  |  |  | + \$ 40.00 | <b>TOTAL FEES ENCLOSED =</b> |  |  |  | \$ 1300.00 |  |  |  |  | Amount to be refunded: |  |  |  |  | \$ |  |  |  |  | charged: |  |  |  |  | \$ |
|---|--------------|--------------|------------|------------------------|--------------|--------------|------|----|--------------|-----------|----|-----------|----------|--------------------|---------|---|-----------|--------|--|--|--|------------|----|--------------------------------------|--|--|--|------------|---|--|--|--|--------------|-------------------|--|--|--|------------|--|--|--|--|----|-----------------------------|--|--|--|------------|--|--|--|--|------------|------------------------------|--|--|--|------------|--|--|--|--|------------------------|--|--|--|--|----|--|--|--|--|----------|--|--|--|--|----|
| CLAIMS  | NUMBER FILED | NUMBER EXTRA | RATE       | \$                     |              |              |      |    |              |           |    |           |          |                    |         |   |           |        |  |  |  |            |    |                                      |  |  |  |            |   |  |  |  |              |                   |  |  |  |            |  |  |  |  |    |                             |  |  |  |            |  |  |  |  |            |                              |  |  |  |            |  |  |  |  |                        |  |  |  |  |    |  |  |  |  |          |  |  |  |  |    |
| Total claims  | 30 - 20 =    | 10           | x \$18.00  | \$180.00               |              |              |      |    |              |           |    |           |          |                    |         |   |           |        |  |  |  |            |    |                                      |  |  |  |            |   |  |  |  |              |                   |  |  |  |            |  |  |  |  |    |                             |  |  |  |            |  |  |  |  |            |                              |  |  |  |            |  |  |  |  |                        |  |  |  |  |    |  |  |  |  |          |  |  |  |  |    |
| Independent claims  | 1 - 3 =      | 0            | x \$86.00  | \$0.00                 |              |              |      |    |              |           |    |           |          |                    |         |   |           |        |  |  |  |            |    |                                      |  |  |  |            |   |  |  |  |              |                   |  |  |  |            |  |  |  |  |    |                             |  |  |  |            |  |  |  |  |            |                              |  |  |  |            |  |  |  |  |                        |  |  |  |  |    |  |  |  |  |          |  |  |  |  |    |
| MULTIPLE DEPENDENT CLAIMS(S) (if applicable)  |              |              | + \$290.00 | \$                     |              |              |      |    |              |           |    |           |          |                    |         |   |           |        |  |  |  |            |    |                                      |  |  |  |            |   |  |  |  |              |                   |  |  |  |            |  |  |  |  |    |                             |  |  |  |            |  |  |  |  |            |                              |  |  |  |            |  |  |  |  |                        |  |  |  |  |    |  |  |  |  |          |  |  |  |  |    |
| <b>TOTAL OF ABOVE CALCULATIONS =</b>  |              |              |            | \$ 1260.00             |              |              |      |    |              |           |    |           |          |                    |         |   |           |        |  |  |  |            |    |                                      |  |  |  |            |   |  |  |  |              |                   |  |  |  |            |  |  |  |  |    |                             |  |  |  |            |  |  |  |  |            |                              |  |  |  |            |  |  |  |  |                        |  |  |  |  |    |  |  |  |  |          |  |  |  |  |    |
| <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.   |              |              |            | + \$ 1260.00           |              |              |      |    |              |           |    |           |          |                    |         |   |           |        |  |  |  |            |    |                                      |  |  |  |            |   |  |  |  |              |                   |  |  |  |            |  |  |  |  |    |                             |  |  |  |            |  |  |  |  |            |                              |  |  |  |            |  |  |  |  |                        |  |  |  |  |    |  |  |  |  |          |  |  |  |  |    |
| <b>SUBTOTAL =</b>   |              |              |            | \$ 1260.00             |              |              |      |    |              |           |    |           |          |                    |         |   |           |        |  |  |  |            |    |                                      |  |  |  |            |   |  |  |  |              |                   |  |  |  |            |  |  |  |  |    |                             |  |  |  |            |  |  |  |  |            |                              |  |  |  |            |  |  |  |  |                        |  |  |  |  |    |  |  |  |  |          |  |  |  |  |    |
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| <b>TOTAL NATIONAL FEE =</b>   |              |              |            | \$ 1260.00             |              |              |      |    |              |           |    |           |          |                    |         |   |           |        |  |  |  |            |    |                                      |  |  |  |            |   |  |  |  |              |                   |  |  |  |            |  |  |  |  |    |                             |  |  |  |            |  |  |  |  |            |                              |  |  |  |            |  |  |  |  |                        |  |  |  |  |    |  |  |  |  |          |  |  |  |  |    |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property  |              |              |            | + \$ 40.00             |              |              |      |    |              |           |    |           |          |                    |         |   |           |        |  |  |  |            |    |                                      |  |  |  |            |   |  |  |  |              |                   |  |  |  |            |  |  |  |  |    |                             |  |  |  |            |  |  |  |  |            |                              |  |  |  |            |  |  |  |  |                        |  |  |  |  |    |  |  |  |  |          |  |  |  |  |    |
| <b>TOTAL FEES ENCLOSED =</b>  |              |              |            | \$ 1300.00             |              |              |      |    |              |           |    |           |          |                    |         |   |           |        |  |  |  |            |    |                                      |  |  |  |            |   |  |  |  |              |                   |  |  |  |            |  |  |  |  |    |                             |  |  |  |            |  |  |  |  |            |                              |  |  |  |            |  |  |  |  |                        |  |  |  |  |    |  |  |  |  |          |  |  |  |  |    |
|   |              |              |            | Amount to be refunded: |              |              |      |    |              |           |    |           |          |                    |         |   |           |        |  |  |  |            |    |                                      |  |  |  |            |   |  |  |  |              |                   |  |  |  |            |  |  |  |  |    |                             |  |  |  |            |  |  |  |  |            |                              |  |  |  |            |  |  |  |  |                        |  |  |  |  |    |  |  |  |  |          |  |  |  |  |    |
|   |              |              |            | \$                     |              |              |      |    |              |           |    |           |          |                    |         |   |           |        |  |  |  |            |    |                                      |  |  |  |            |   |  |  |  |              |                   |  |  |  |            |  |  |  |  |    |                             |  |  |  |            |  |  |  |  |            |                              |  |  |  |            |  |  |  |  |                        |  |  |  |  |    |  |  |  |  |          |  |  |  |  |    |
|   |              |              |            | charged:               |              |              |      |    |              |           |    |           |          |                    |         |   |           |        |  |  |  |            |    |                                      |  |  |  |            |   |  |  |  |              |                   |  |  |  |            |  |  |  |  |    |                             |  |  |  |            |  |  |  |  |            |                              |  |  |  |            |  |  |  |  |                        |  |  |  |  |    |  |  |  |  |          |  |  |  |  |    |
|   |              |              |            | \$                     |              |              |      |    |              |           |    |           |          |                    |         |   |           |        |  |  |  |            |    |                                      |  |  |  |            |   |  |  |  |              |                   |  |  |  |            |  |  |  |  |    |                             |  |  |  |            |  |  |  |  |            |                              |  |  |  |            |  |  |  |  |                        |  |  |  |  |    |  |  |  |  |          |  |  |  |  |    |